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ANNUAL REPORT TO THE BOARD OF SUPERVISORS COUNTY SURVEYOR'S OFFICE JANUARY 1, 1980

[Orange County]

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ANNUAL REPORT TO THE BOARD OF SUPERVISORS
SURVEY SECTION - EMA
January 1, 1980

The Survey Section of the EMA consists of two separate groups: Office and Field Survey. The duties of each group and the work performed during 1979 are as follows:

SUBDIVISION MAP CHECKING UNIT - OFFICE GROUP

This unit examines all tract maps, parcel maps, and record of survey maps before they are filed or recorded. Tracts in unincorporated territory are checked for mathematical accuracy and for compliance with the Subdivision Map Act and County Ordinances. City tracts are checked only for compliance with the Subdivision Map Act.

A breakdown of recorded tracts by unincorporated territory and incorporated territory with a comparison between 1978 and 1979 is as follows:

	TRACTS 1978	TRACTS 1979	PERCENT OF 1978	LOTS 1979	ACREAGE 1979	AVERAGE LOTS PER TRACT-1979
INCORPORATED	261	224	86%	5398	2937	24
UNINCORPORATED	97	102	105%	4107	1892	40
TOTAL	358	326	91%	9505	4829	29

A breakdown of recorded tracts and parcel maps by Supervisorial Districts is as follows:

DISTRICT	TRACTS	LOTS	ACRES
1	27	161	90.81
2	33	560	164.65
3	115	4437	1927.42
4	32	697	266.99
5	119	3650	2378.72
TOTALS	326	9505	4828.59

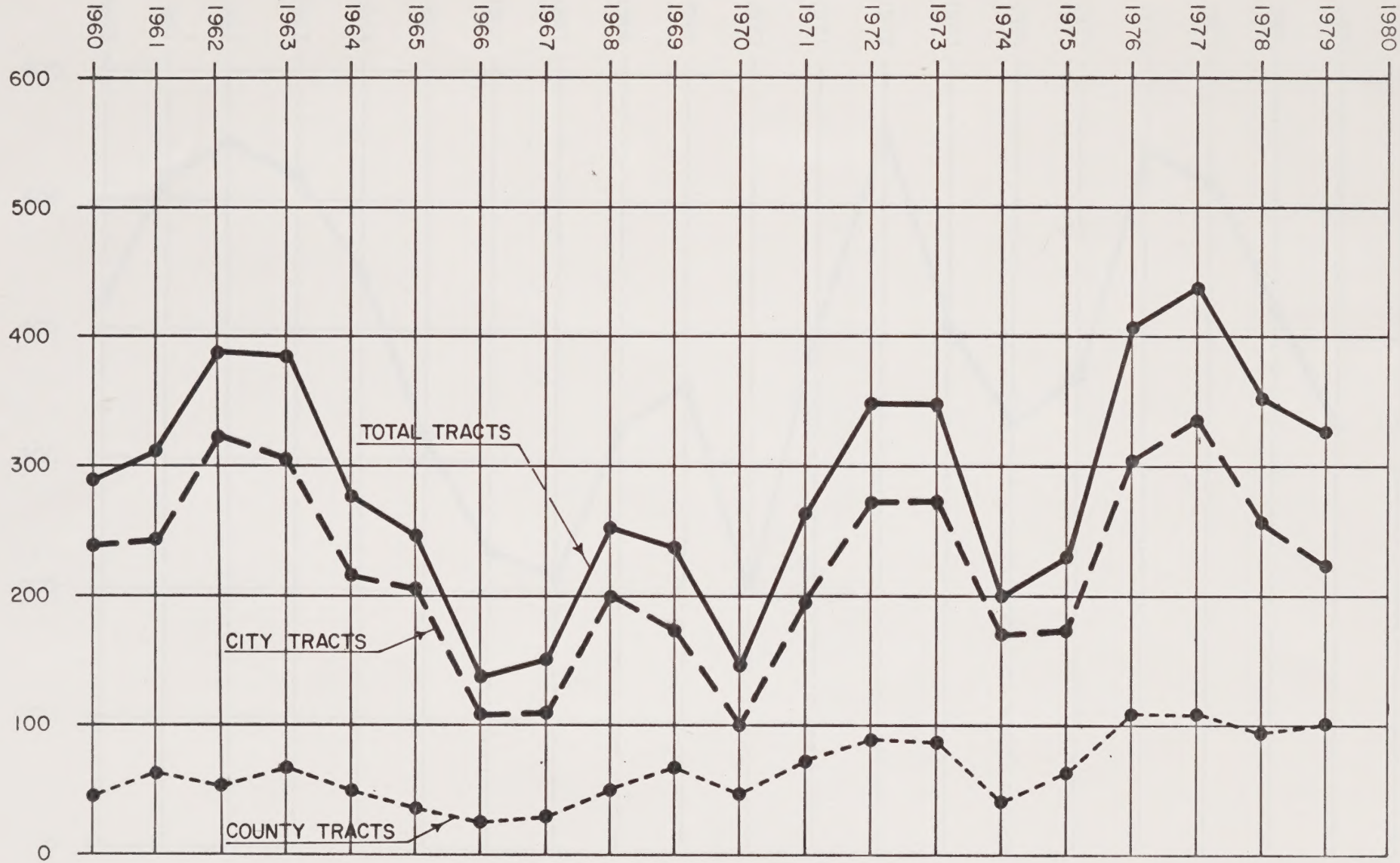
DISTRICT	PARCEL MAPS	PARCELS	ACRES
1	65	185	322.75
2	45	115	336.03
3	84	258	1249.80
4	70	252	424.87
5	111	408	5603.32
TOTALS	375	1218	7936.77

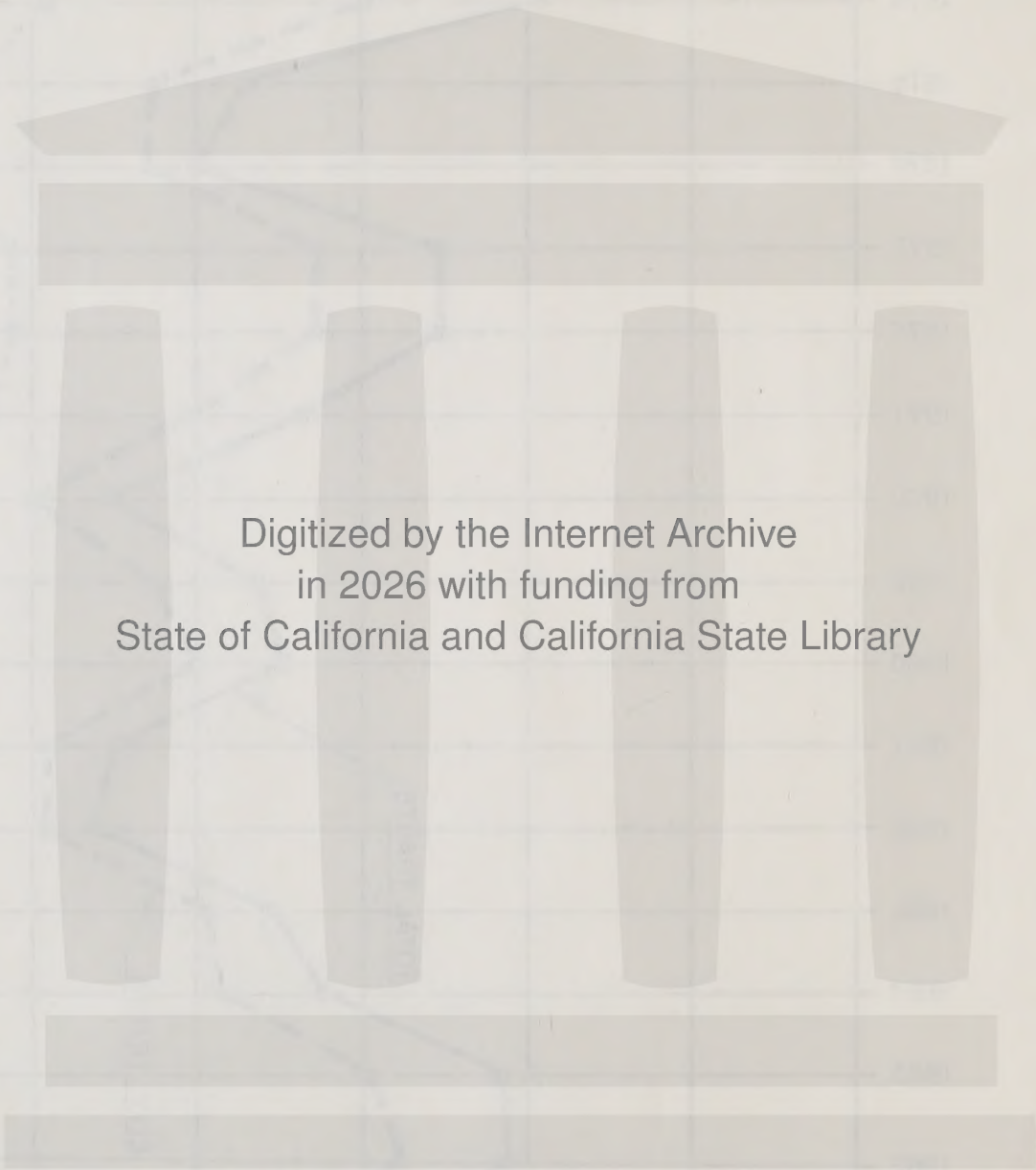
YEAR 1979 - TOTAL NUMBER OF TRACTS RECORDED

	No. Tracts 1979	No. Tracts 1978	No. Lots 1979	No. Lots 1978	No. Acres 1979	No. Acres 1978
Unincorporated Orange County	102	97	4107	3823	1761.28	2082.80
Anaheim	14	20	260	312	130.67	158.78
Brea	12	11	358	547	254.32	197.88
Buena Park	1	0	1	0	5.47	0
Costa Mesa	26	10	317	275	67.04	47.70
Cypress	5	4	138	52	37.49	54.90
Fountain Valley *	0	3	0	81	0	16.73
Fullerton *	8	13	181	472	71.65	259.12
Garden Grove	20	15	96	165	27.35	33.03
Huntington Beach	13	25	341	713	108.16	243.36
Irvine *	32	28	702	551	679.72	208.74
Laguna Beach	0	2	0	5	0	1.16
La Habra	6	4	62	142	21.15	24.69
La Palma	1	3	48	63	12.02	12.69
Los Alamitos	0	0	0	0	0	0
Newport Beach	4	12	60	151	30.16	139.92
Orange	15	23	444	674	165.04	322.85
Placentia	6	7	143	383	37.40	58.45
San Clemente	5	11	299	33	88.79	16.75
San Juan Capistrano	1	11	134	591	264.04	383.60
Santa Ana	13	13	91	100	69.71	64.15
Seal Beach	4	10	4	91	0.50	15.92
Stanton	3	0	42	0	9.64	0
Tustin	4	3	18	63	13.05	14.91
Villa Park	2	2	13	17	9.27	13.55
Westminster	1	7	8	135	1.61	24.99
Yorba Linda	28	24	1638	988	832.22	433.56
GRAND TOTAL	326	358	9505	10427	4828.59	4840.23

* County Subdivision Map Checking unit does not check the subdivision maps within the designated cities except for "County Recorder Review".

NUMBER OF RECORDED TRACT





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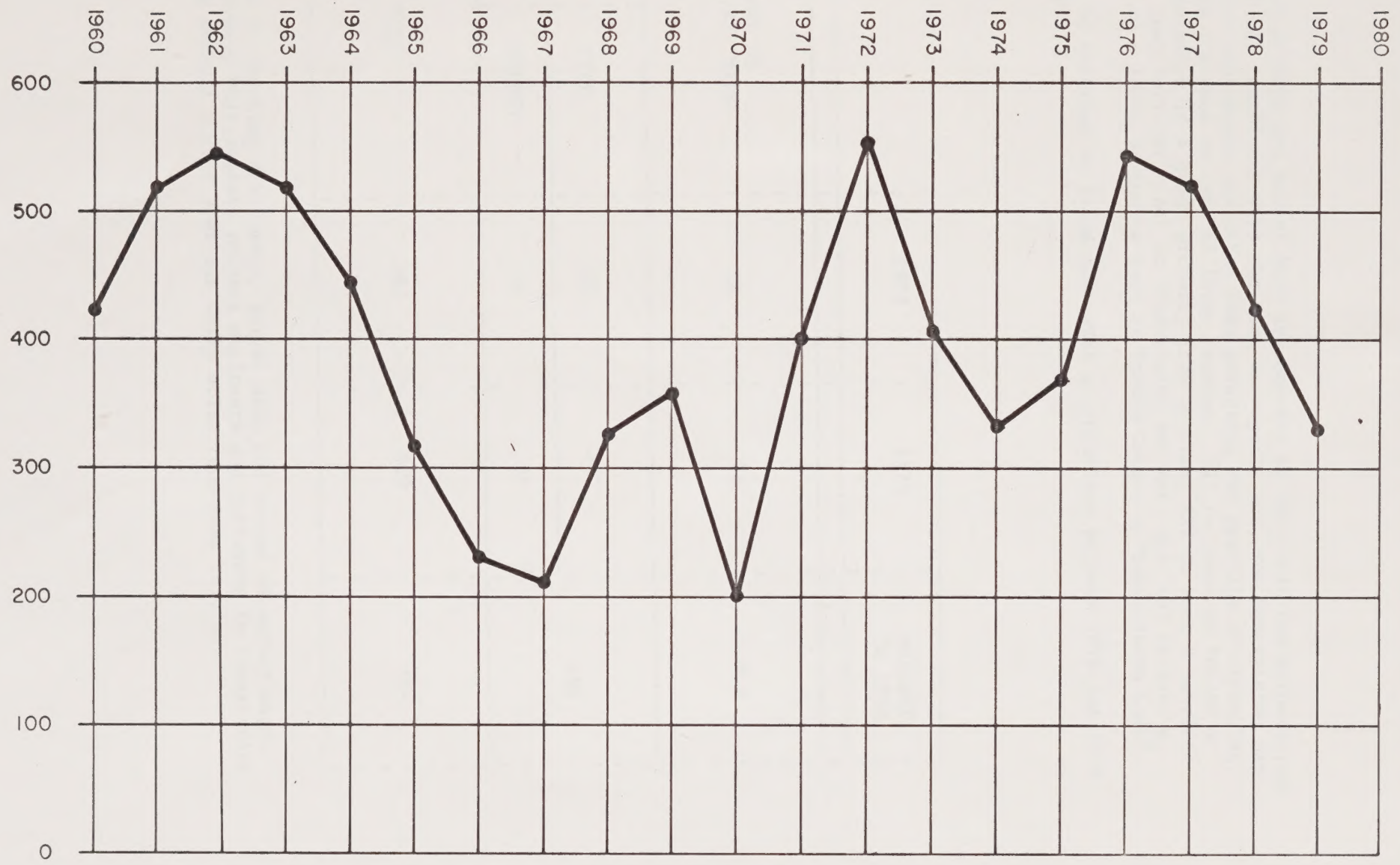
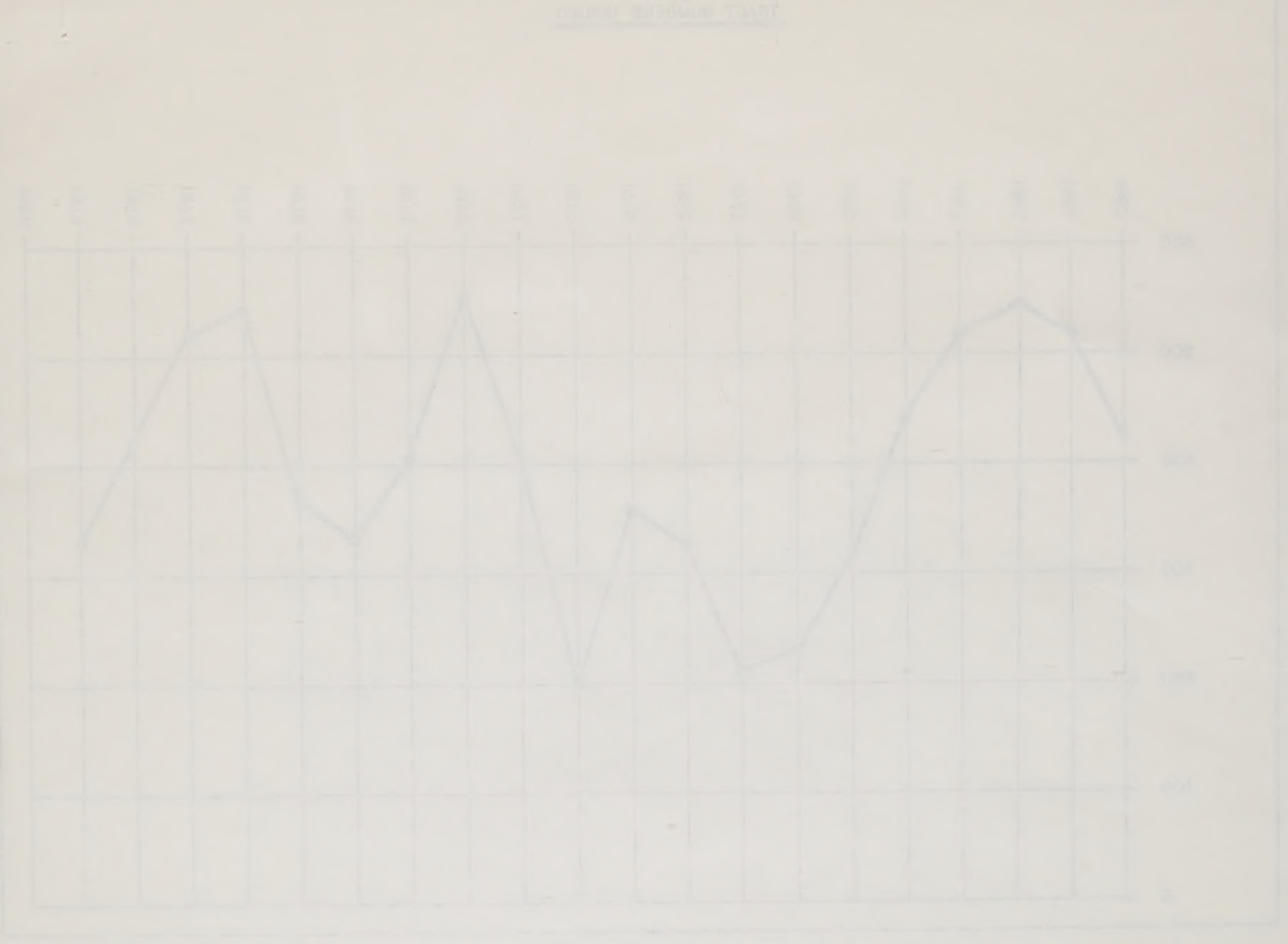
TRACT NUMBERS ISSUED





Record of Survey Maps and Parcel Maps are checked by this unit for mathematical accuracy and for compliance with the Land Surveyor's Act, the Subdivision Map Act, and local ordinances and other laws governing the practice of surveying. Such maps are recorded for any of three reasons: (1) to place on record a surveyor's solution to a given property line problem; (2) to meet a requirement of the Land Surveyor's Act or Subdivision Map Act; and, (3) to meet a requirement of a local ordinance such as Orange County's "Subdivision Code".

A breakdown of recorded or filed maps with a comparison between 1978 and 1979 is as follows:

		1978	1979	PERCENT OF 1978
RECORD OF SURVEY MAPS		36	34	94%
PARCEL MAPS	CITY	469	320	69%
	COUNTY	76	55	
TOTAL		581	409	70%

In addition to checking tract maps, parcel maps and record of survey maps, the Map Checking Unit assists private engineers and surveyors in researching and solving unusual survey problems which arise from time to time.

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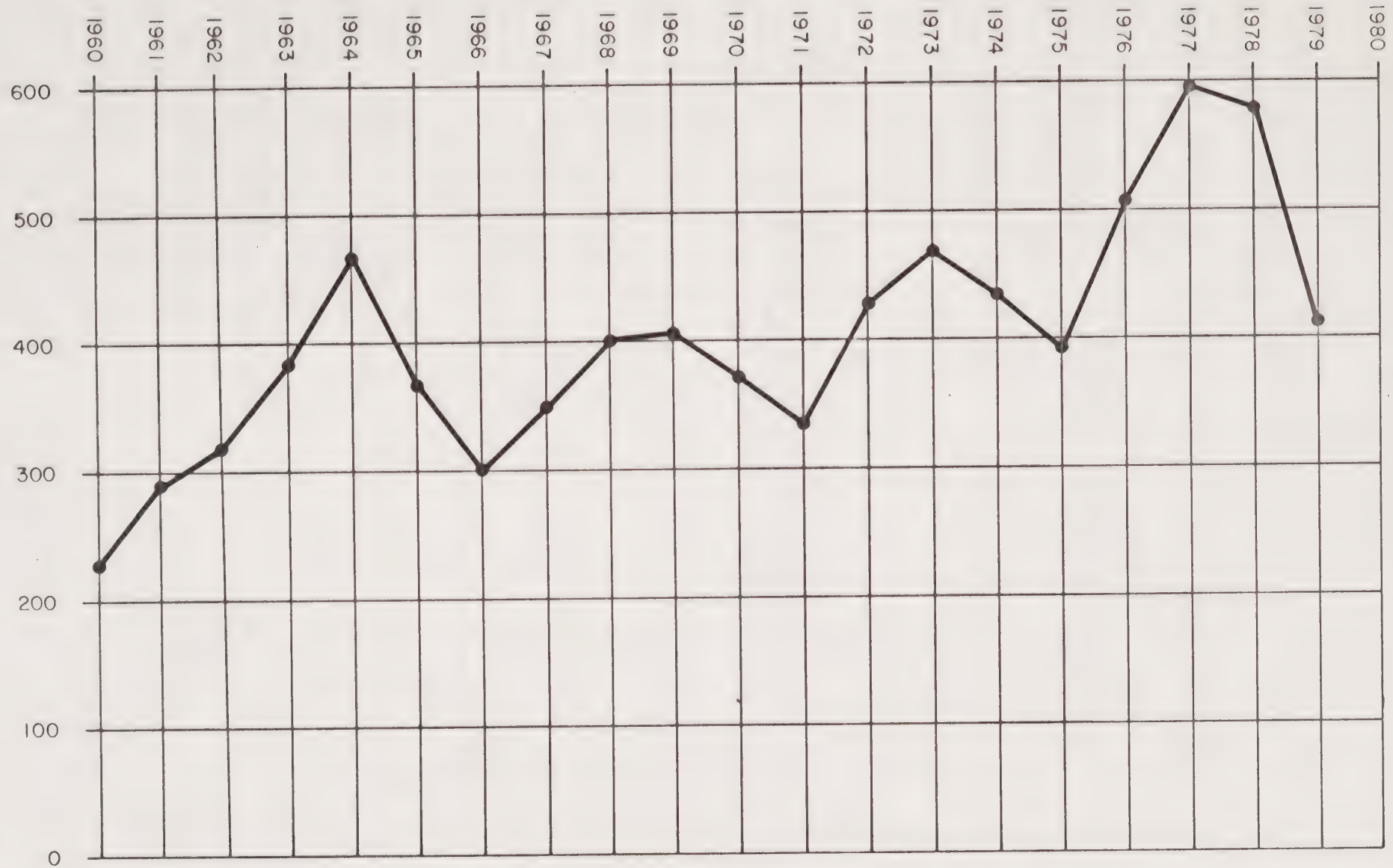
RECORDED PARCEL AND RECORD OF SURVEY MAPS



MAP DRAFTING UNIT - OFFICE GROUP

This unit maintains 92 county road maps, 81 county precinct maps and performs miscellaneous drafting work as required.

COUNTY ROAD MAPS: The County Road Maps show streets, subdivisions, records of surveys, parcel maps, county surveyor's maps, city boundaries, public properties, relinquishments of state highways to local jurisdiction and abandonments of public streets and public properties. The following changes were made on the road maps and their tracings during 1977.

338 New subdivisions were plotted.

248 New recorded documents affecting county properties and rights of way were delineated.

46 New city annexations of county territories were plotted.

COUNTY PRECINCT MAPS: The county precinct maps show all streets, precinct boundaries, census tracts, school districts, supervisorial districts, judicial districts, congressional districts, assembly districts, senatorial districts, and city boundaries. The following changes were made on the precinct maps and their overlays during 1977:

994 Revisions were made at the request of the Registrar of Voters and as caused by city annexations and incorporations of county territory.

338 New subdivisions were plotted.

OFFICIAL COUNTY MAPS: Official county maps are located in various offices throughout the county. Eighteen maps were periodically updated to show correct city boundaries which changed due to annexations.

MISCELLANEOUS DRAFTING WORK: Consists of maps drafted or display maps prepared.

8	Maps for the Board of Supervisors
51	Maps for Survey Field Section
148	Maps for EMA Administrative Offices
22	Maps for Registrar of Voters
3	Maps for Deputy County Surveyor
35	Maps for County Surveyor's Office
47	Maps for Water Resources
2	Maps for County Administrative Office
4	Maps for Analytical Services

BOUNDARY UNIT - OFFICE GROUP

This unit examines all descriptions and maps of proposed formations, annexations, and/or de-annexations involving cities or districts, and reports its findings to the Board of Supervisors or the Local Agency Formation Commission.

When districts are involved such as school districts, judicial districts and districts governed by the Board of Supervisors, this unit prepared the necessary maps and legal descriptions for all formations and boundary changes.

During 1979 there were twenty maps prepared and accompanying legal descriptions written for various districts such as County Service Areas, Orange County Street Lighting Maintenance Districts and Schools Districts. In addition sixteen exhibit maps were prepared for various county departments and sixty five display and exhibit maps were prepared for the Local Agency Formation Commission.

There are one hundred sixty two master maps and folders maintained by this unit.

In the following table, the first column indicates the number of proposed annexations and/or de-annexations to cities; the second column indicates the number of annexations and/or de-annexations which became final; and the third column indicates the number of acres included within the annexation and/or de-annexation which became final.

CITIES	PROPOSED ANNEXATIONS	ANNEXATIONS FINALIZED	NO. OF ACRES INCLUDED WITHIN FINAL ANNEXATIONS
Anaheim	8	5	1257.002
Brea	1	1	74.600
Buena Park	0	0	0.000
Costa Mesa	0	1	2.605
Cypress	2	2	30.955
Fountain Valley	0	0	0.000
Fullerton	0	0	0.000
Garden Grove	3	3	64.571
Huntington Beach	0	0	0.000
Irvine	1	0	0.000
Laguna Beach	1	1	5.399
La Habra	4	9	33.560
La Palma	1	0	0.000
Los Alamitos	0	0	0.000
Newport Beach	0	0	0.000
Orange	5	9	1151.040
Placentia	0	1	0.678
San Clemente	1	1	1344.560
San Juan Capistrano	0	0	0.000
Santa Ana	5	4	22.970
Seal Beach	0	0	0.000
Stanton	2	0	0.000
Tustin	3	7	1006.254
Villa Park	0	0	0.000
Westminster	1	1	4.299
Yorba Linda	2	1	0.210
TOTAL	40	46	4998.703

Tabulated below in a similar manner as city boundary changes are the number of descriptions and maps processed for various taxable districts of the county.

NUMBER AND TYPE OF DISTRICTS	PROPOSED ANNEXATIONS	ANNEXATIONS FINALIZED
7 Sanitary	24	41
7 Sanitation	9	9
9 Lighting	17	10
11 Lighting Maintenance	63	57
2 Highway Lighting	2	1
4 Recreation & Park	1	3
3 Sewer Maintenance	5	5
13 County Service Areas	2	0
4 Library	3	0
22 Water	19	18
6 Improvement Districts within Water Districts	12	2
2 Waterworks	3	1
TOTAL	160	147

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FIELD SURVEY GROUP

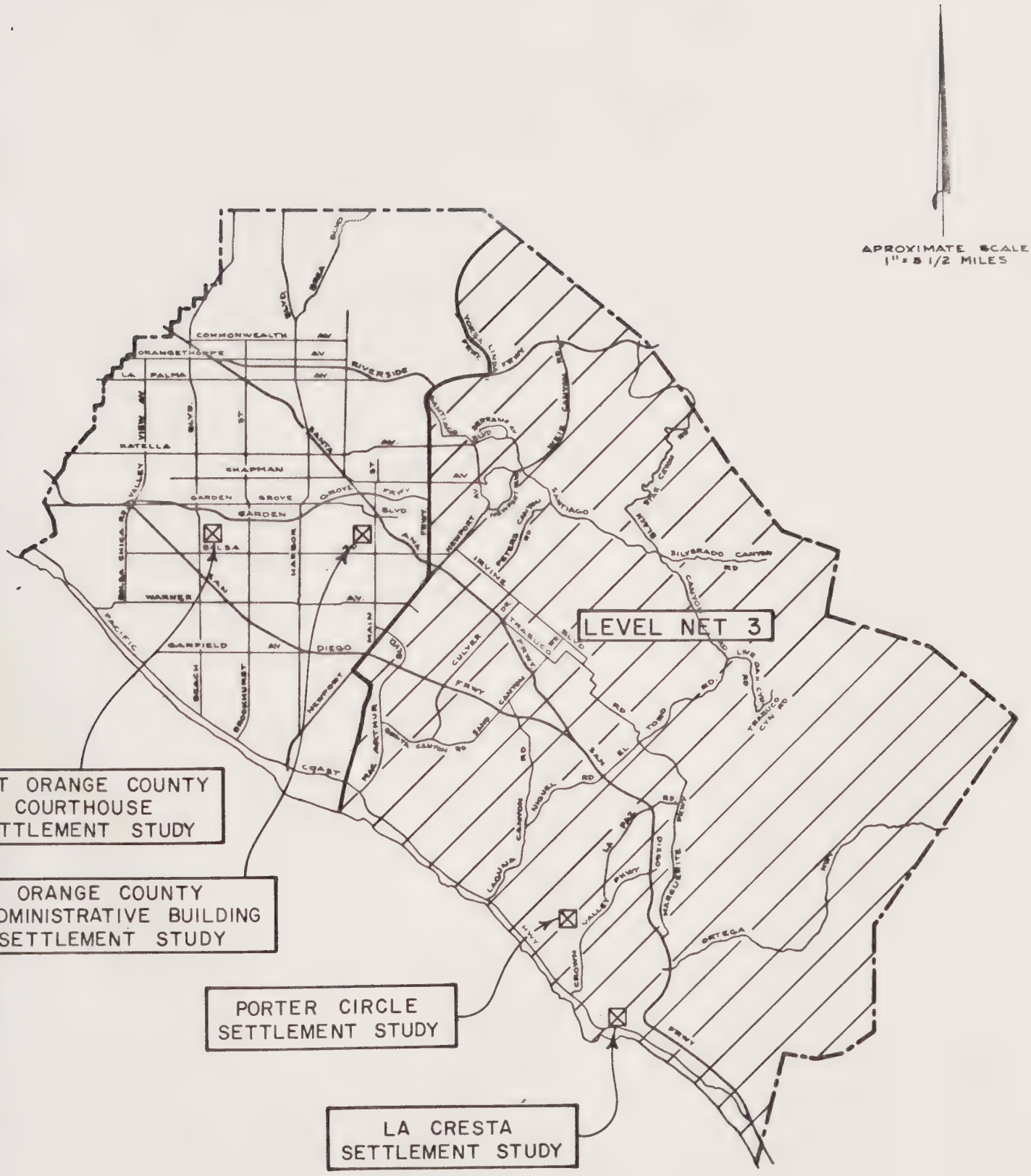
The Field Survey Group maintains and extends horizontal and vertical control surveys, retraces section lines, and references and retraces street center lines throughout the County. This information is made available to the general public. In addition, this section does all the field survey work for projects of the Environmental Management Agency and other County departments as requested. The group is made up of twelve field survey parties and an office unit for computations.

HORIZONTAL CONTROL SURVEYS

Horizontal control surveys are made to establish and maintain the coordinated network of points on a single datum for the benefit of all engineering projects or boundary surveys within the County.

Major projects for which horizontal control has been completed during 1979 are:

1. Carbon Canyon Road - Centerline Control
2. Capistrano Beach - Centerline Control
3. Dana Point - Centerline Control
4. T3S, R9W - Sections 2, 3, 4, 5, 9, 10, 11, 12, 13
5. T3S, R9W - North Line
6. T3S, R9W - East Line
7. T3S, R8W - Sections 16 and 17
8. County Line N/E'ly of Santa Ana Canyon
9. Orange and Riverside Freeway - CDH Control Update
10. Laguna Beach - CDH Control Update (SR73-008)
11. Beach, Newland and Magnolia - CDH Control Update
12. Ortega Highway - CDH Control Update (SR76-193)
13. Live Oak Canyon Road @ N/E Boundary of R/O Trabuco
14. Trabuco Oaks Drive
15. Santa Ana Freeway - CDH Control Update (A0R005J)



VERTICAL CONTROL
1979

VERTICAL CONTROL SURVEYS

The vertical control surveys establish a precise common datum for elevations throughout the County. This information is made available to the general public. By releveling all previously established lines, it is determined where crustal movements have taken place within the County.

Approximately 108 miles of precise levelling was accomplished during 1979. The major projects are as follows:

1. Level Net 3
2. West County Courthouse Settlement Study
3. County Administrative Building Settlement Study
4. Porter Circle Settlement Study
5. La Cresta Settlement Study

PHOTOGRAMMETRIC SURVEYS

Photogrammetric surveys are generally used to obtain preliminary survey information of a large area for planning and design of various projects. The field survey group prepares the agreement with the photogrammetrist, establishes the vertical and horizontal control and checks the final maps for accuracy and agreement with the specifications. The photogrammetric surveys completed in 1979 are as follows:

1. Olinda Refuse Disposal Station - Volume and Mapping
2. Santiago Canyon Refuse Disposal Station - Volume and Mapping
3. Coyote Canyon Refuse Disposal Station - Volume and Mapping
4. Prima Deshecha Refuse Disposal Station - Volume and Mapping
5. Transfer Station 2/Disposal Station 10 - Volume and Mapping
6. Irvine Regional Park
7. Mouth of Santa Ana River
8. Alicia Parkway - Plano Trabuco to Mission Viejo

MISCELLANEOUS SURVEYS

The following miscellaneous surveys were completed in 1979:

1. Posting for Districts, Sheriff and abandonments - 14 jobs
2. Movement Study - Villa Park Dam
3. Movement Study - Sulphur Creek Dam
4. Various potholes for utility locations
5. Numerous field map checks
6. Scour studies - Approximately 45 miles on the following O.C.F.C.D. Channels: A02, A03, B01, C02, C04, C05, D02, D05, E01, F05, F06, L01, L02, and L03
7. Numerous R/W Flagging

PRELIMINARY SURVEYS

Approximately 25 miles of preliminary surveys have been accomplished during 1979. These surveys are used as a basis for planning and design of various projects. Following are the locations of these surveys:

	PROJECT	PROJECT LIMITS
1.	Del Obispo Street	Camino Capistrano to Ortega Hwy.
2.	Crawford Canyon Storm Drain	Stroller to 500' S/O Greenwald
3.	Vanderlip Storm Drain	F07 to Cameron Lane
4.	Beach Road Storm Drain	E'ly of Palisade to W'ly Camino Capistrano
5.	Beach Road Storm Drain	Sta. 23+00 to Sta. 56+00
6.	Anaheim Island	Local Streets
7.	Worthy Storm Drain	Midway City
8.	Worthy Storm Drain	McFadden to 73' N'ly Carnegie Ave.
9.	Hillcrest Street	First St., Hillcrest, Monte Vista
10.	Skyline Storm Drain	Skyline Dr. - Afton to Las Brisas
11.	Forester Canyon	Landfill Site 17
12.	El Modena - Irvine Channel	Redhill to 1000' D/S Bryan
13.	E. Richfield Storm Channel	S.A.R. to Orangethorpe
14.	Richfield Channel	Buena Vista to Yorba Linda Blvd.
15.	Richfield Channel	Buena Vista to Yorba Linda Blvd.
16.	Santa Ana River	Least Tern Feeding Area
17.	Newland St. Storm Drain	Bolsa to Hazard
18.	Santa Ana - Delhi Channel	San Diego Fwy. to Anton Blvd.
19.	Fullerton Creek Channel	A03S01 Confluence to Knott Ave.
20.	Fullerton Creek Channel	@ Valley View Street
21.	Fullerton Creek Channel	Walnut to Wilshire
22.	Brea Canyon Channel	Brea Res. to D/S Imperial Hwy.

	PROJECT	PROJECT LIMITS
23.	Featherly Regional Park	E'ly End of Park
24.	O'Neill Park Crossing	Crossing at Trabuco Creek
25.	Carbon Canyon Bike Path	Rose Drive to Corp's Prop. Line
26.	El Toro Road	2.3 miles N/O Trabuco to Live Oak
27.	Del Prado Ext.	Violet Lantern to Crystal Lantern
28.	Santiago Canyon Road	Chapman Ave. to Disp. Sta. 25
29.	Irvine Boulevard	Bake Parkway to Pusan Avenue
30.	Camino El Molino	Via Sacramento to Camino de Estrella
31.	Meats Avenue	Summit Ridge Lane to Sta. 130
32.	Walker Street	Delong St. to 340' N'ly of Crescent Ave.
33.	Crown Valley Pkwy.	E'ly side La Paz to Adelanto Drive
34.	Brookhurst Street	Page Street to 158' N'ly
35.	El Toro Road	Aliso Park Road to 50' W/O Raintree Ln.
36.	Coast Hwy. Bike Trail	E'ly of Doheny Park Road

CENTERLINE SURVEYS

During 1979 approximately 9 miles of centerline were surveyed and referenced in the County. The following projects were completed during this period:

1. Rose Drive - Valencia Avenue to Imperial Highway
2. La Palma Avenue - State College to Lemon Street
3. Modjeska Canyon Road - Santiago Canyon Road to end and portion of Modjeska Grade
4. Live Oak Canyon Road - P.I. 13 to P.I. 81
5. Harbor Boulevard & Heil - Warner to Heil on Harbor
   Harbor to Newhope on Heil

BOUNDARY SURVEYS

The following boundary surveys were completed in 1979:

1. Savanna Street
2. RST 9478 - Imperial Highway & Rose Drive
3. Olinda Disposal Station Within Boundary
4. Coyote Canyon #24 - Landfill Lease Boundary
5. Valencia Fire Station - Yale to Walnut
6. Dump Site Boundary - Along A.T.S.F. R.R. s/o Oso Pkwy.
7. Mason Regional Park - E/'ly Boundary
8. Talbert Regional Park - N.E. Boundary
9. S.A.R. Trail - S.P. R.R. to Ball Road
10. Palisades Drive - S'ly Line Parcel #2

CONSTRUCTION SURVEYS

Approximately 47 miles of construction surveys were completed during 1979. These surveys were made for the construction of the following projects:

	PROJECT	PROJECT LIMITS
1.	Home Savings	@ Santiago Creek
2.	Gilbert-Cerritos S.D.	Pacific Pl. to N/O S.P. R.R.
3.	Vanderlip Storm Drain	@ R.R. Crossing W'ly of Newport Ave.
4.	El Modena Comm. Center	18672 Center Street
5.	Colonia Independencia	Harcourt, Garzia, Berry, Pacific
6.	El Modena Move On	Esplanade & Spring Street
7.	Aurora Park	S'ly of Alicia W/O Marguerite Pkwy.
8.	Ridgeview Park	Laguna Niguel
9.	Gershon Mini Park	@ 17th and Gershon
10.	Cordova Park	@ Mission Viejo
11.	Oso Viejo Comm. Park	Park Boundary
12.	Stockport Park	In Laguna Hills
13.	Silverado-Modjeska	Community Center
14.	San Joaquin Channel	Main Street to 405 Freeway
15.	Fullerton Creek Channel	A.T. & S.F. R.R. to Walnut
16.	Hyland Storm Drain	Costa Mesa
17.	Hyland Storm Drain	D03 to Segerstrom
18.	Gilbert-Cerritos Storm Drain	C03 Channel to S.P. R.R.
19.	Harbor/Edinger Storm Drain	540' S/O Heil to 200' N/O Edinger
20.	Irvine-Baycrest Storm Drain	Dover to Tradewinds
21.	Moody Creek Channel	Moody Street to La Palma Avenue
22.	Richfield Channel	Buena Vista - 1800' S/O Yorba Linda

	PROJECT	PROJECT LIMITS
23.	Santa Ana River	1100' U/S PCH to 3000' D/S Adams
24.	Greenville-Banning Channel	PCH to 300' U/S Hamilton
25.	Fullerton Creek Channel	Walnut to Wilshire
26.	San Diego Creek Excavation	Phase 2
27.	Como Storm Drain	F06 to 1300' U/S Yale
28.	San Juan Creek	NE'ly Corner of SJC Rd. & La Novia
29.	San Diego Creek	Sta. 9+50 to Sta. 160+00
30.	San Juan Creek	Coast Hwy. to Sta. 86+00
31.	Bolsa Chica Channel	Confl. C02-C02S01 to C02 @ Katella
32.	Santa Ana River	17th St. to Katella Avenue
33.	S.A.R. Drop Structure	S/O Garden Grove Boulevard
34.	Coyote Creek	Sta. 371+10 to Sta. 415+39
35.	El Modena Channel	Bryan S/O Browning
36.	Imperial Channel	@ Greenbrier @ U.S. Imperial
37.	English Canyon Channel	Via Noveno to Entidad Road
38.	San Joaquin Channel	F05 to Main
39.	Casper Regional Park	Within Park Boundary
40.	Casper Regional Park	San Juan-Bell Canyon Creeks
41.	Newport Harbor	Docking Facility
42.	Dana Point Harbor	Parcels A and B
43.	O'Neill Park Crossing	Crossing at Trabuco Creek
44.	Santiago Creek	@ Irvine Park
45.	Euclid St. Well Abandonment	S/O Edinger in Fountain Valley
46.	Stonehill Drive	715' W/O Intera to Golden Lantern
47.	Meats Avenue	Summit Ridge to City of Anaheim
48.	Newland Storm Drain	Newland-Bolsa to Hazard

	PROJECT	PROJECT LIMITS
49.	Crown Valley	@ Pacific Island Drive
50.	Golden Lantern	Selva to 220' E'ly Selva
51.	Crown Valley	@ P.C.H.
52.	Crown Valley Drain Fac.	@ P.C.H.
53.	Adams Ave. Bridge	@ Santa Ana River
54.	Lakeview Ave. Bridge	@ Santa Ana River
55.	Rose Drive & Alleys	Valencia to Imperial
56.	Howland Street	Wellington to Weston
57.	Resurface Various Streets	Countywide
58.	Villa Park Road	@ Santiago Creek
59.	Brea Canyon Blvd. Bridge	@ Brea Canyon Channel Banks
60.	Trabuco Canyon Road	@ Trabuco Creek
61.	Avenida Pico	3.2 miles N/E of the San Diego Fwy.
62.	Windes Drive	Adj. to Santiago Ck. E/O Lewis
63.	Palisades Drive	PCH to Camino Capistrano
64.	Marguerite Pkwy.	Slide Repair
65.	Alicia Pkwy. Median	Po to Muirlands

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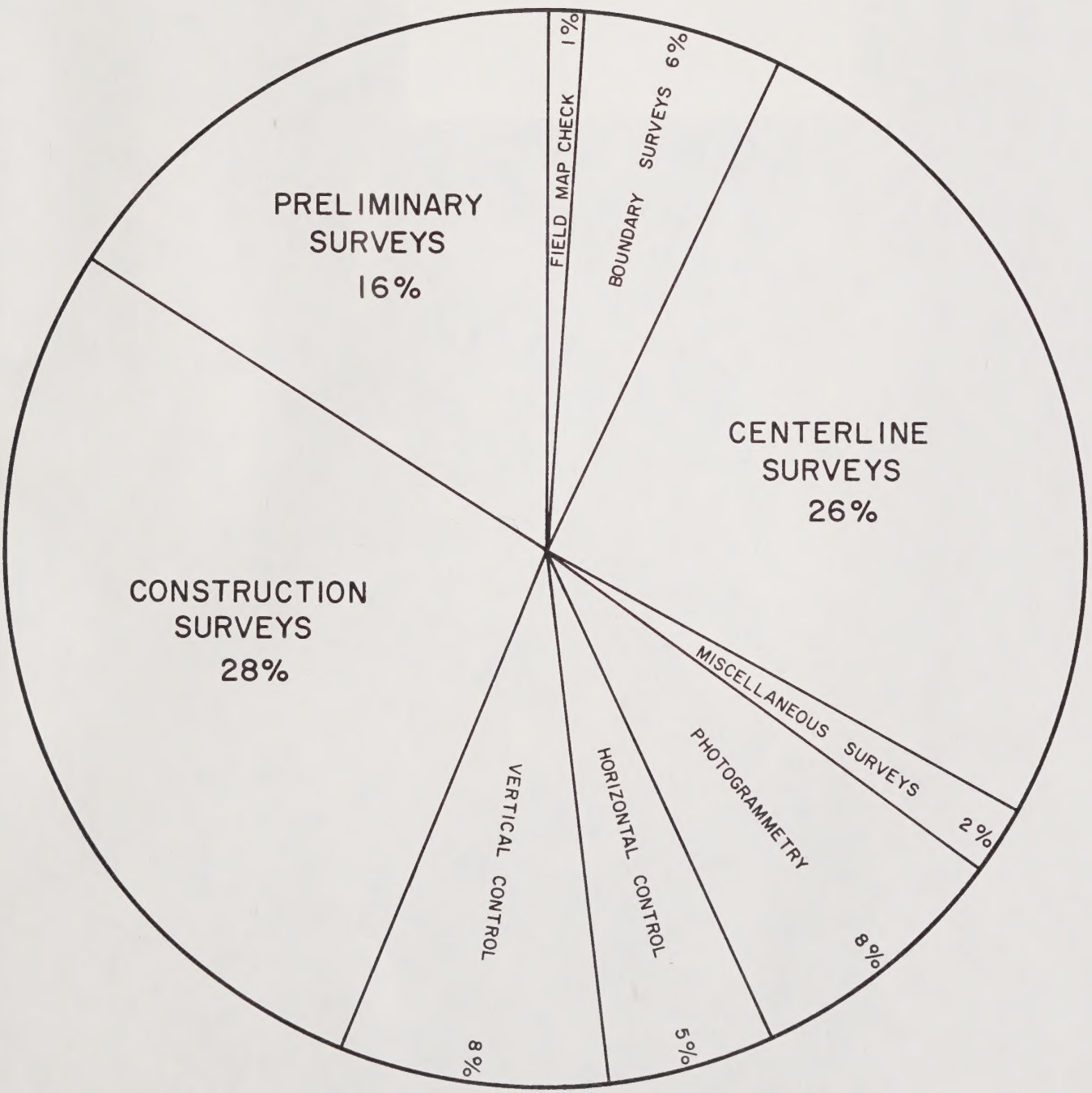

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